SERVICE MANUAL

FOR

MODEL WPP(HOB)-531-F-120

HANDS FREE WEATHERPROOF (RESISTANT) TELEPHONE

AND

MODEL SSP-511-F-120

STAINLESS STEEL PANEL TELEPHONE

EQUIPPED WITH SPK1.07 UNVLr1-120 FIRMWARE

CEECO

Serving the Telephone Industry Since 1930

Communication Equipment
& Engineering Company

519 West South Park Street
Okeechobee, Florida 34972
Voice: (863) 357-0798
Fax: (863) 357-0006

IMPORTANT INFORMATION FOR CUSTOMER

Please fill in before you continue.

The following information is necessary when calling CEECO for assistance.

MODEL NUMBER	MODEL WPP(HOB)-531-F-120 OR SSP-511-F-120 EQUIPPED WITH SPK1.07UNVLr1-120 FIRMWARE
SERIAL NUMBER	
DATE MANUFACTURED	
LOCATION INSTALLED	

For us to better serve you, please have this information available when calling for technical support.

CEECO

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1.0 INTRODUCTION

The practices in this manual provide installation and maintenance information for the CEECO Model WPP(HOB)-531-F-120 or Model SSP-531-F-120 Telephone with SPK1.07 UNVLr1-120 firmware.

The information in this manual is subject to change without notification.

For information not included in this manual, please call or write:

CEECO
Customer Service
519 West South Park Street
Okeechobee, Florida 34972

(863) 357-0798
(863) 357-0006 FAX

2.0 GENERAL

2.1 The CEECO hands free telephone is a sturdy, vandal resistant, Stainless Steel Panel Speakerphone. Instead of a hookswitch and handset, the telephone has a Press to start/Press to stop button for initiation and termination of phone calls.

2.2 The telephone may be programmed to automatically dial a pre-programmed PBX/Access number and/or and Auto-Dial number. These numbers may be up to eleven digits in length. If both options are utilized, the first PBX/Access number will dial out first, followed by an approximately three second pause, followed by the second Auto-Dial number. The keypad is then free to use.

2.3 The microphone is muted during periods of dial tone eliminating the use of hand held dialers.

2.4 Incoming calls may be allowed or blocked depending on the programming.

2.5 Programming is accomplished via the DTMF keypad.

3.0 PROGRAMMING

NOTE: It is recommended that you ground yourself to prevent ESD damage to the PCB(s).

3.1 Connect the phone to a working telephone line or a DTMF test set before programming.

3.2 Move the mini-jumpers (located on the edge of the Printed Circuit Board) to the “ON” position, as depicted on the last page of this manual.

3.3 Press the CALL button and wait for dial tone before programming any digits.

3.4 Each location is accessed by dialing the "#" sign and a two digit code. The previous contents of the location are automatically erased when the location code is accessed.

NOTE: Once the “#" (pound) key has been entered you may get an operator recording or a fast busy, please disregard and continue programming.

3.5 To **clear all** user programmable memory, move the mini-jumpers in the "ON" position, press the CALL button located on the front of the phone and dial **#97**.

3.6 Location "00" is the phone option location. It is comprised of ten digits, all of which must be filled to render the phone functional. By entering 0 or 1 into each of the 10 digits (digits 4 and 10 allow choices of 1-9 to be entered), the phone is customized to a particular installation. Be sure to record your entries in the option table for future reference.

PROGRAMMING CONTINUED…

LOCATION #00: (OPTION TABLE)

#00 1 0 0 0 5

— — — — — — — — — —

Digit 1:
1 Always 1 for this model.

Digit 2:
0 No incoming calls allowed.
1 Incoming calls allowed.

Digit 3:
0 No Conversation Time-Out. For ***Call*** Button
1-9 Minutes Conversation Time-Out.

Digit 4:
0 Always 0 for this model.

Digit 5:
0 Always 0 for this model.

Digit 6:
0 Deactivate ADA feature.
1 Activate ADA feature.

Digit 7:
0 Dial number programmed in location #19.
1 Do Not Dial number programmed in location #19.

Digit 8:
0 Do Not Dial number programmed in location #18.
1 Dial number programmed in location #18

Digit 9:
0 **Always 0 for this model**.

Digit 10:
0 No Wink Detect
l-9 Length of the Wink (l = 50ms incremental to 450ms – entering a **5** is recommended)

PROGRAMMING CONTINUED…

EXAMPLE:

DIAL #00 1106000105

Phone will be set as follows:

DIGIT 1 .. ALWAYS 1
DIGIT 2 .. INCOMING CALLS ALLOWED
DIGIT 3 .. NO CALL TIME OUT
DIGIT 4 .. ALWAYS 0
DIGIT 5 .. ALWAYS 0
DIGIT 6 .. NO ADA-CHANGING COLOR LED
DIGIT 7 .. DIAL NUMBER IN #19
DIGIT 8 .. DIAL NUMBER IN #18
DIGIT 9 .. ALWAYS 0
DIGIT 10 . 250ms WINK

3.7 When programming is finished, return the mini-jumpers to the "OFF" position. Then hang up the phone ("on hook" condition), by pressing the black "CALL " button. The phone is now ready for use.

5.0 OPERATION

5.1 To make a call, press the black "CALL" button located on the front of the phone. When dial tone is received, the transmitter is muted and the phone waits for numbers to be dialed.

5.2 If numbers are pre-programmed in locations #18 and/or #19, and the correct entries were made when programming location #00, those numbers will automatically dial out. If both numbers are utilized, there will be an approximately three second pause between the numbers.

5.2 After the call is complete, press the "CALL" button again to terminate the call. If user does not press the "CALL" button when he or she is finished using the phone, then the phone will hang-up after detecting a WINK (momentary open) or when the timer times-out, if it was so programmed.

NOTE: In some cases, a local PBX does not automatically send a wink back as a Central Office would. Some of these PBXs can be programmed to do so. It would be necessary to contact the manufacturer of the PBX.

6.0 RECOMMENDED TOOLS AND TEST EQUIPMENT

DTMF Test Set
Volt/Ohm Meter
3/8" Nut Driver
5/16" Nut Driver
Flat Blade Screw Driver
Security Tool, CEECO Part Number 301-064

7.0 INSTALLATION NOTES AND ASSEMBLY INSTRUCTIONS

7.1 Using a 301-064 security tool (sold separately) to remove the four locking screws.

7.2 The security tool is for a standard 5/32" button head screw generally used on the framework of the phone booths.

7.3 Separate the cover assembly from the Housing.

7.4 Run the inside station wire through the Housing and terminate on to the RJ11C modular jack on the housing, as depicted on the following page. This CEECO-provided modular jack must be used, as it contains required over-voltage protection.

7.5 The use of a gas tube or carbon station protector is recommended. The station ground should not exceed 50 ohms.

7.6 Plug the modular line cord from the PC board into the RJ11C terminal block.

7.7 Dress the line cord away from the locking screws and seat the faceplate into the enclosure.

7.8 Secure the cover assembly by tightening the security screw.

*******WARNING*******

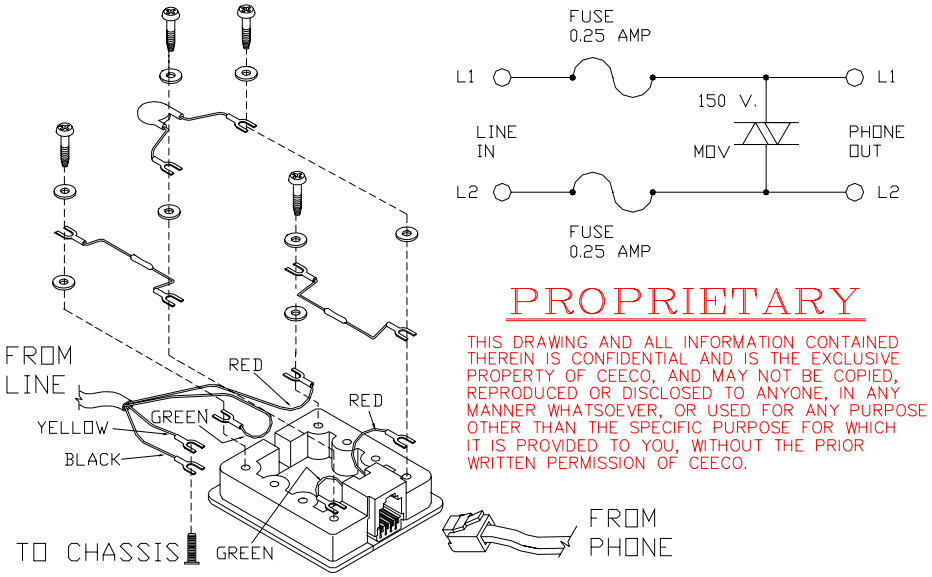
A. Never install telephone wiring during a lightning storm.

B. Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.

C. Never touch uninsultated telephone wires or terminals unless the telephone line has been disconnected at the network interface.

D. Use caution when installing or modifying telephone lines.

8.0 OVER-VOLTAGE PROTECTION DIAGRAM



9.0 TESTING

Action:	Connect the phone to a working phone line. Press the black "CALL" button.
Reaction:	Dial tone. And any numbers programmed in #18/#19 dial out. A normal conversation takes place.
Action:	The keypad is used for further message menu access.
Reaction:	Any subsequent conversation is allowed.
Action:	Finish the conversation. Press the "CALL" button, or wait until time-out occurs (if programmed as such).
Reaction:	The call is terminated.

10.0 SPECIFICATIONS

INPUT POWER:	C.O. Line Powered
LOOP CURRENT:	30Ma min. 80Ma max.(48 Volt loop)
IMPEDANCE:	600 ohms
SIGNALING:	DTMF, 70ms tone, 50ms spacing
LINE OUTPUT	-10.0dbm to –12.0dbm
ENVIRONMENTAL:	Temperature: 0°C to 50°C Humidity: 20%-90%
PROGRAMMING:	Via DTMF Keypad
TELEPHONE PANEL:	Brushed 14 gauge Stainless Steel
PANEL DIMENSIONS:	7 1/6" Wide x 11 1/4" High x 4 1/4" Deep
MOUNTING:	4 Holes spaced 10 ¾" x 6 ½" x 9/32"
WEIGHT:	Approximately 4 lb.
WPP HOUSING:	Cast Aluminum.
WEIGHT:	Approximately 12 lb.
DIMENSIONS:	WPP-9 1/2" W x 12 5/8" H x 8" D (Including door).
MOUNTING:	4 Holes spaced 8" x 5 7/8" x 13/32"
HOB HOUSING:	Painted Steel.
WEIGHT:	Approximately 12 lb.
DIMENSIONS:	HOB- 11.28" H x 7.080" W x 5" D
MOUNTING:	4 Holes spaced 8" x 5 7/8"by .312" dia.
MEMORY RETENTION:	Non-volatile memory retention
FCC REGISTRATION:	BW88T7-13823-TE-T
RINGER EQUIVALENCE:	0.7A
TYPE JACK:	RJ11C

11.0 PARTS LIST

QUANTITY	PART NUMBER	DESCRIPTION
1	705-110	Keypad
1	700-008	Keypad Cable
1	660-000	CEECO SPK Board
1	301-6020-B	Momentary Panel Switch
1	14123	Speaker
1	301-006	Ringer
1	301-009	Network
1	331-010	Stainless Steel Panel
1	331-005	Cast Aluminum Weather Proof Housing
4	331-006	Outer Cover Locking- Screw
1	301-018	Modular Line Cord
1	301-054	Modular Connector (RJ11C)
1	531-200	Service Manual
1	SPK1.07-120	Custom Software

ACCESSORIES

1	301-064	Security Tool

12.0 FCC NOTICE

12.1 FCC REGISTRATION AND REPAIR INFORMATION

Your new telephone has been registered with the Federal Communication Commission (FCC) in accordance with Part 68 of its rules. The FCC requires that you be advised of certain requirements involving the use of this telephone.

12.2 CONNECTION WITH THE NATIONWIDE TELEPHONE NETWORK

The FCC requires that you connect this telephone to the Nationwide Telephone Network through a registered jack provided by the Telephone Company in your area. This jack is a modular outlet, which you can order from your local telephone company.

12.3 NOTIFICATION TO THE TELEPHONE COMPANY

Before connecting this telephone, the FCC requires that you notify your local telephone company business office. The number is in the front of your phone book.

Tell them:

The "line" to which you will connect the telephone (that is, your phone number) and the telephone's FCC registration number and ringer equivalence number. These numbers are listed in Section 11.00.

The FCC further requires that you notify your local telephone company when permanently disconnecting this telephone.

13.0 REPAIR AND RETURN INFORMATION

13.1 WARRANTY REPAIR

Any device returned requiring warranty service; repair or credit must be accompanied with a "Return Material Authorization" (RMA) FORM. It must include return shipping instructions, original purchase order number and special marking instruction. A description of the trouble observed must be attached to the defective unit. This information must be inside the shipping container.

13.2 DIRECT ALL INQUIRES TO:

CEECO
Repair Department
519 West South Park Street
Okeechobee, Florida 34972

(863) 357-0798
(863) 357-0006 Fax

13.3 NON-WARRANTY REPAIR

CEECO will repair equipment out of warranty for a set charge plus parts. The customer must pay the shipping costs both directions.

13.4 RETURN FOR CREDIT

Material may be returned for credit only with prior approval. Material authorized for return is subject to a 20% restocking charge based on the manufacturer's list price Return RMA must be requested no later than 30 days after original shipment.

14.0 WARRANTY POLICY

14.1 GENERAL

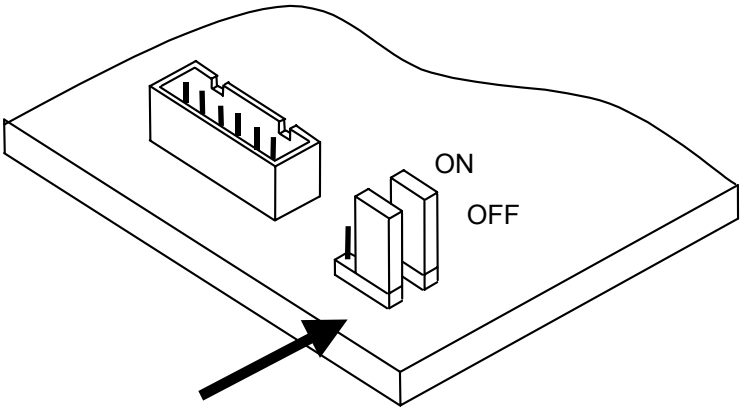
CEECO products are guaranteed to be free of defects in material and workmanship for a period of 365 days from the date of original purchase. CEECO's obligation under this warranty is limited to repair or replacement of any part found to be defective by CEECO. Under no circumstances shall CEECO be liable for loss, damage, cost of repair or consequential damages of any kind, which have been caused by neglect, abuse, act of God or improper operation of equipment. This warranty is limited to the value of material only.

14.2 PRINTED CIRCUIT BOARDS

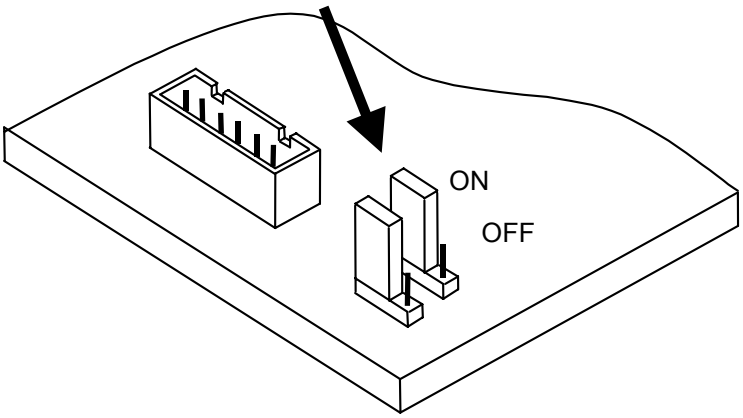
Printed circuit boards should not be repaired in the field. If a unit is found to be faulty, replace it with another unit and return the faulty unit to CEECO for repair. Modifications by any one other than CEECO will void the warranty.

15.0 DIAGRAM

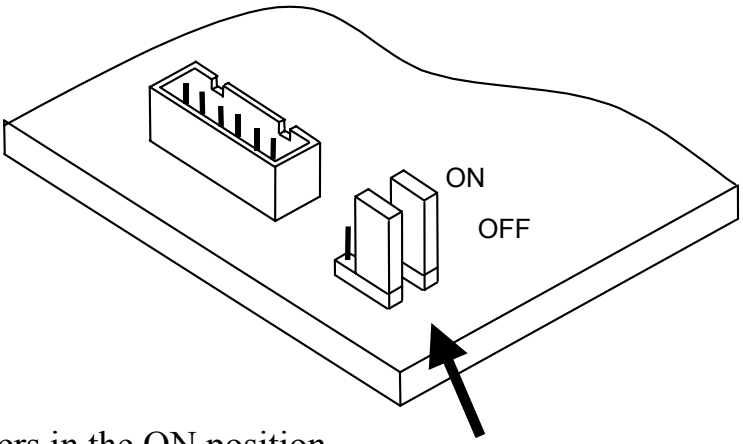
Locate the mini jumpers on the corner of the PCB.



Move the mini jumpers to the ON position BEFORE going off-hook.



When programming is completed, move the mini jumpers to the OFF position.



NOTE:
Do not leave the mini jumpers in the ON position, this will decrease battery life.